# CLAIMS

1. A tooth-hardening apparatus comprising:

a tooth-hardening member of a plate shape having a projection on its surface; and

a nipple attached on the tooth-hardening member; wherein

the nipple has a predetermined hardness to provide a pacifier function and a tooth-hardening function.

2. The tooth-hardening apparatus according to claim 1, wherein

a gripping opening is disposed on both sides of the nipple on the tooth-hardening member.

3. The tooth-hardening apparatus according to claim 1, wherein

the tooth-hardening member has a space formed substantially in the center portion of the tooth-hardening member, the space being covered with a transparent cover, and

the nipple is coupled to the tooth-hardening member through the transparent cover.

4. The tooth-hardening apparatus according to claim 3, wherein

a plurality of colored balls are contained in the space covered with the transparent cover.

5. The tooth-hardening apparatus according to claim 3, wherein

the transparent cover is provided with a drain hole.

6. A tooth-hardening apparatus comprising:

a first tooth-hardening member of a plate shape having a first surface provided with a plurality of first projections; and

a second tooth-hardening member of a plate shape having a second surface provided with a plurality of second projections; wherein

the second tooth-hardening member is arranged at a periphery of the first tooth-hardening member in parallel to the second tooth-hardening member, and

the first surface of the first tooth-hardening member and the

second surface of the second tooth-hardening member are formed of respective materials which have hardnesses different from each other.

7. The tooth-hardening apparatus according to claim 6, wherein

the first hardening member has a space formed substantially in the center portion of the first tooth-hardening member, the space being covered with a transparent cover.

8. The tooth-hardening apparatus according to claim 7, wherein

a plurality of colored balls are contained in the space covered with the transparent cover.

9. The tooth-hardening apparatus according to claim 7, wherein

the transparent cover is provided with a drain hole.

10. The tooth-hardening apparatus according to claim 6, wherein

a gripping opening is disposed on the first tooth-hardening member.

11. A tooth-hardening apparatus comprising:

a first tooth-hardening member of substantially a plate shape having a first surface provided with a plurality of first projections;

a second tooth-hardening member of substantially a plate shape having a second surface provided with a plurality of second projections, and being arranged in parallel to the first tooth-hardening member; and

a coupling member for coupling the first tooth-hardening member to the second tooth-hardening member; wherein

the first surface of the first tooth-hardening member and the second surface of the second tooth-hardening member are formed of respective materials which have hardnesses different from each other.

12. The tooth-hardening apparatus according to claim 11, wherein

the first tooth-hardening member has a space formed substantially in the center portion of the first tooth-hardening member, the space being covered with a transparent cover.

13. The tooth-hardening apparatus according to claim 12, wherein a plurality of colored balls are contained in the space covered with the transparent cover.

14. The tooth-hardening apparatus according to claim 12, wherein the transparent cover is provided with a drain hole.

15. The tooth-hardening apparatus according to claim 11, wherein the coupling member is composed of a plurality of curved members.

16. The tooth-hardening apparatus according to claim 11, wherein at least one of the first and second tooth-hardening members is so configured as to firstly come close to the other member from the center portion toward the periphery, and then to separate from the other member.